UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

February 1965

PART II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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La Jolla, California 92038

*Part 1 - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

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SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
FEBRUARY 1965

Acknowledgments

The following organizations and stations contributed data for the February 1965 charts:

U.S. Bureau of Commercial Fisheries Exploratory Fishing and Gear Research Base, Seattle, Washington

U.S. Bureau of Commercial Fisheries Biological Laboratories; La Jolla, California; Honolulu, Hawaii and Seattle, Washington

U.S. Weather Bureau, San Diego, California

U.S. Naval Communication Station Balboa, Fort Amador, Canal Zone

U.S. Weather Bureau Port Meteorological Office, Cristobal, Canal Zone

Guadalupe Island, Coronado Island, Ensenada, Cedros Island and Almejas Bay by Pedro Mercado of the Universidad Autonoma de Baja California, Ensenada, Mexico

Hopkins Marine Station, Pacific Grove, California by J. P. Balesteri

Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; L. A. Peren at Pt. Armuelles, Panama; V. E. Castillo at Tumaco, Colombia; G. Tapia at San Cristobal, Galapagos; S. Valenzuela at La Libertad, Ecuador; Juan Andia and J. Cardenas at San Juan, Peru

Inter-American Tropical Tuna Commission, La Jolla and Terminal Island, California

Kelco Company, San Diego, California

Lifeguard Headquarters, Newport Beach, California

Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by T. C. Collins at Quatsino Lightstation; J. L. Fraser at Cape St. James Light; B. Stuart at Amphitrite Point Light; A. J. Roch at Langara Island Light

Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein

Ships American Enterprise, Independence and Royal Pacific

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather-ship stations. Numerals on shore are temperatures at coastal and light-ship stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term charts of H.O. 225. Hatched areas are colder than mean.

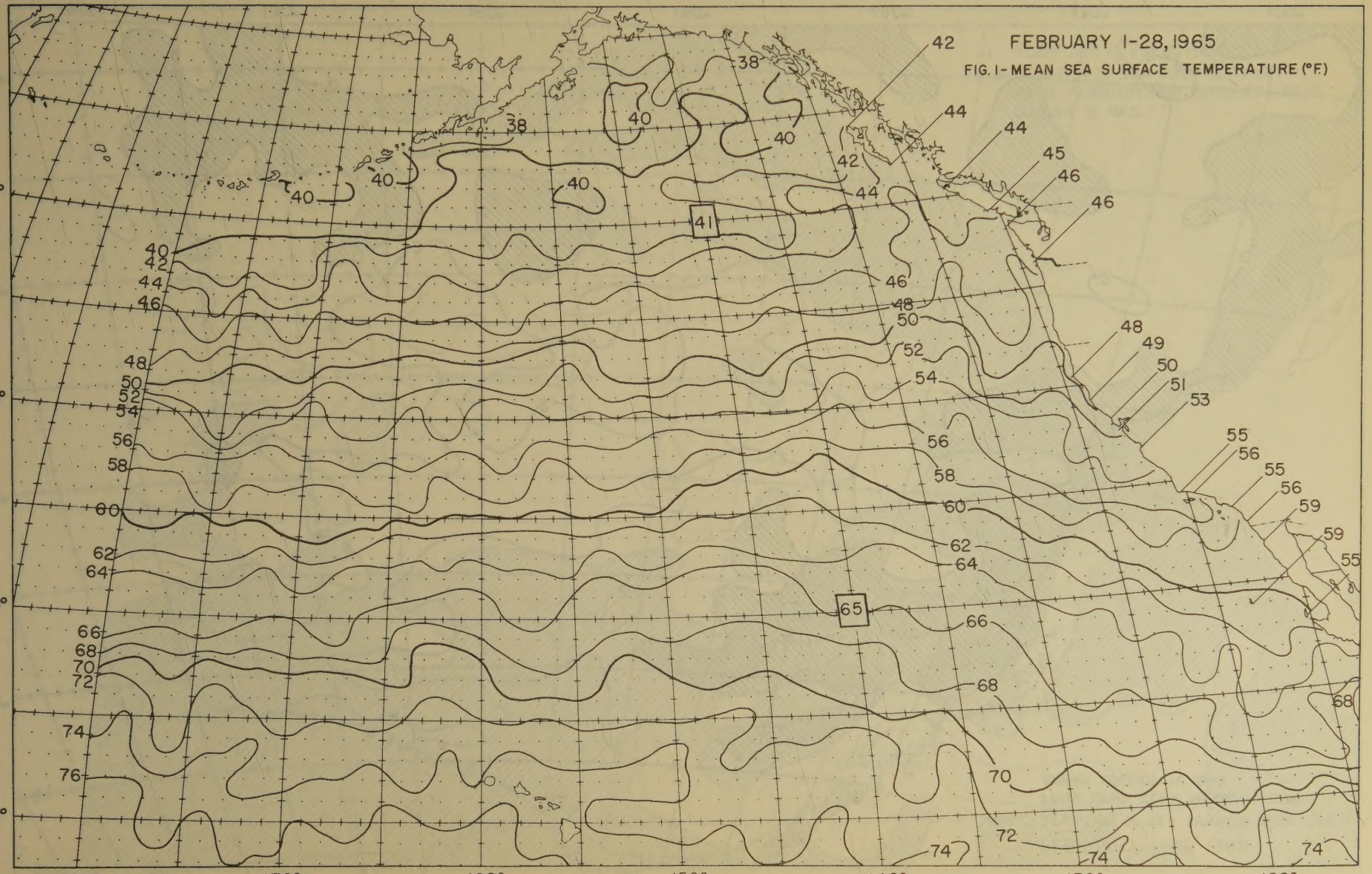
Figure 3.--Deviation of sea surface temperatures (°F) from those of February 1964. Hatched areas are colder than 1964.

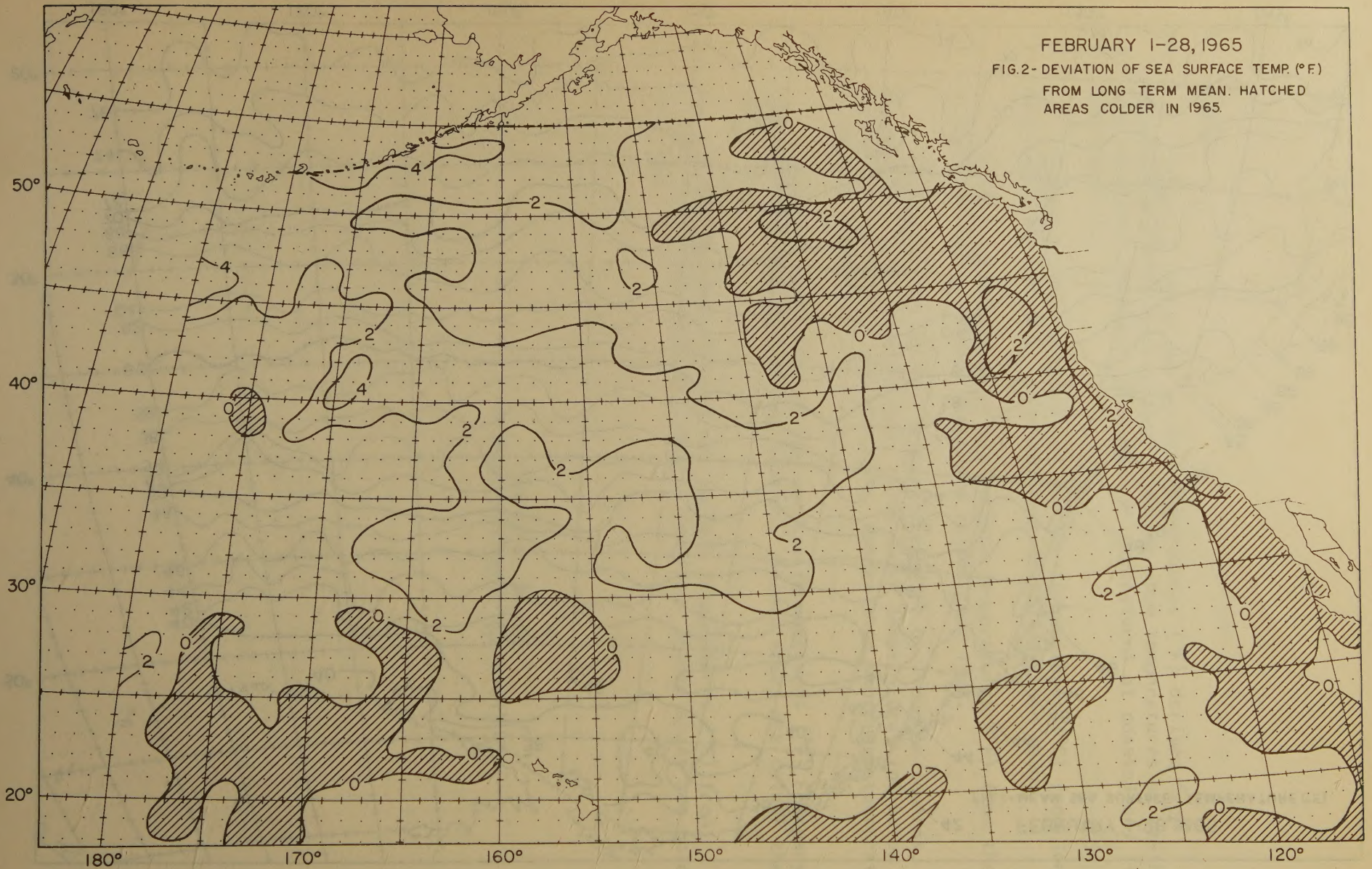
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

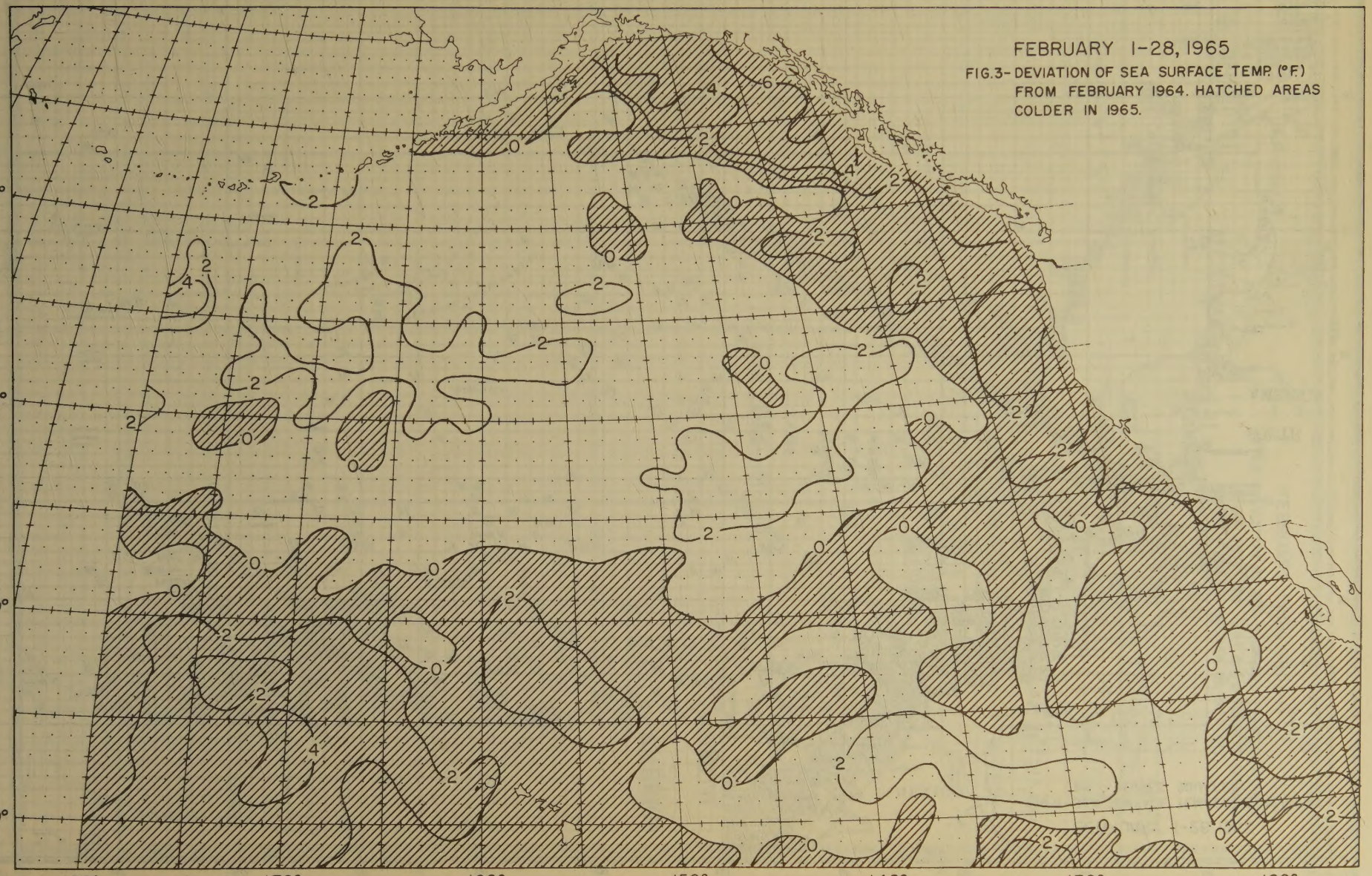
Figure 5.--Deviation of sea surface temperatures (°F) February 1965-February 1964 by 1-degree squares. Shaded areas are colder than 1964.

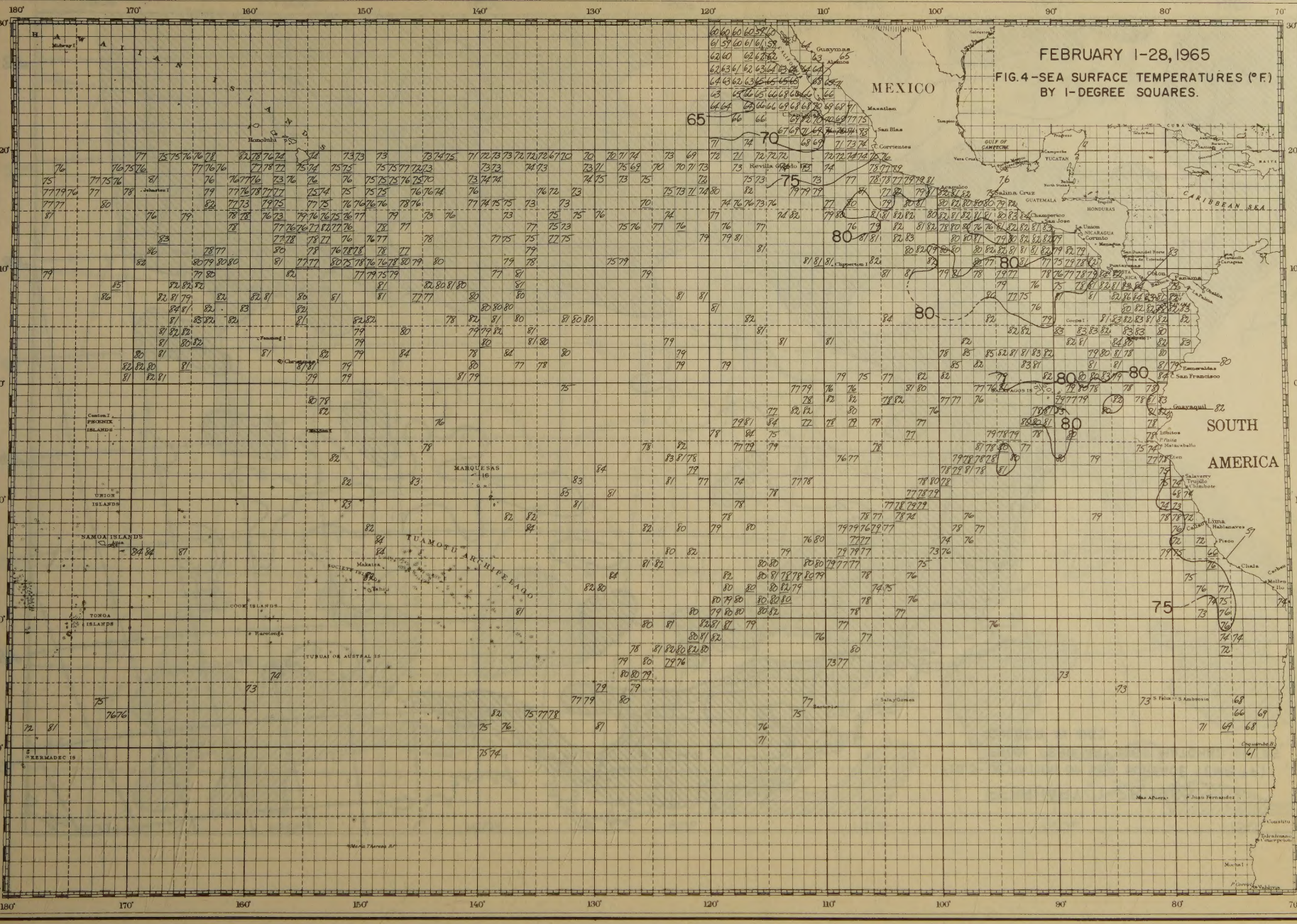
Figure 6.--Deviation of sea surface temperatures (°F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas are colder than 1964.

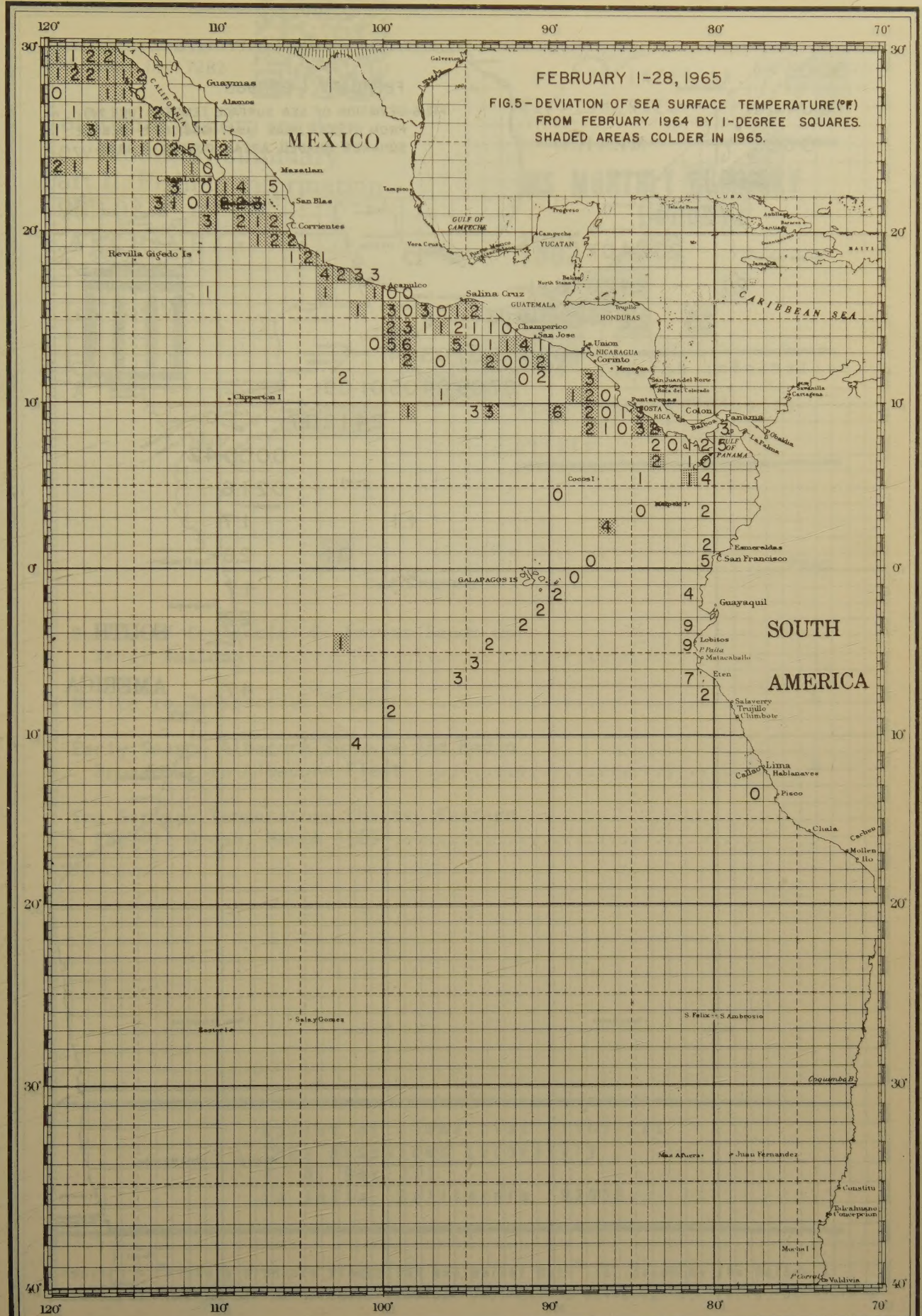
James A. Renner
Fishery Biologist (General)

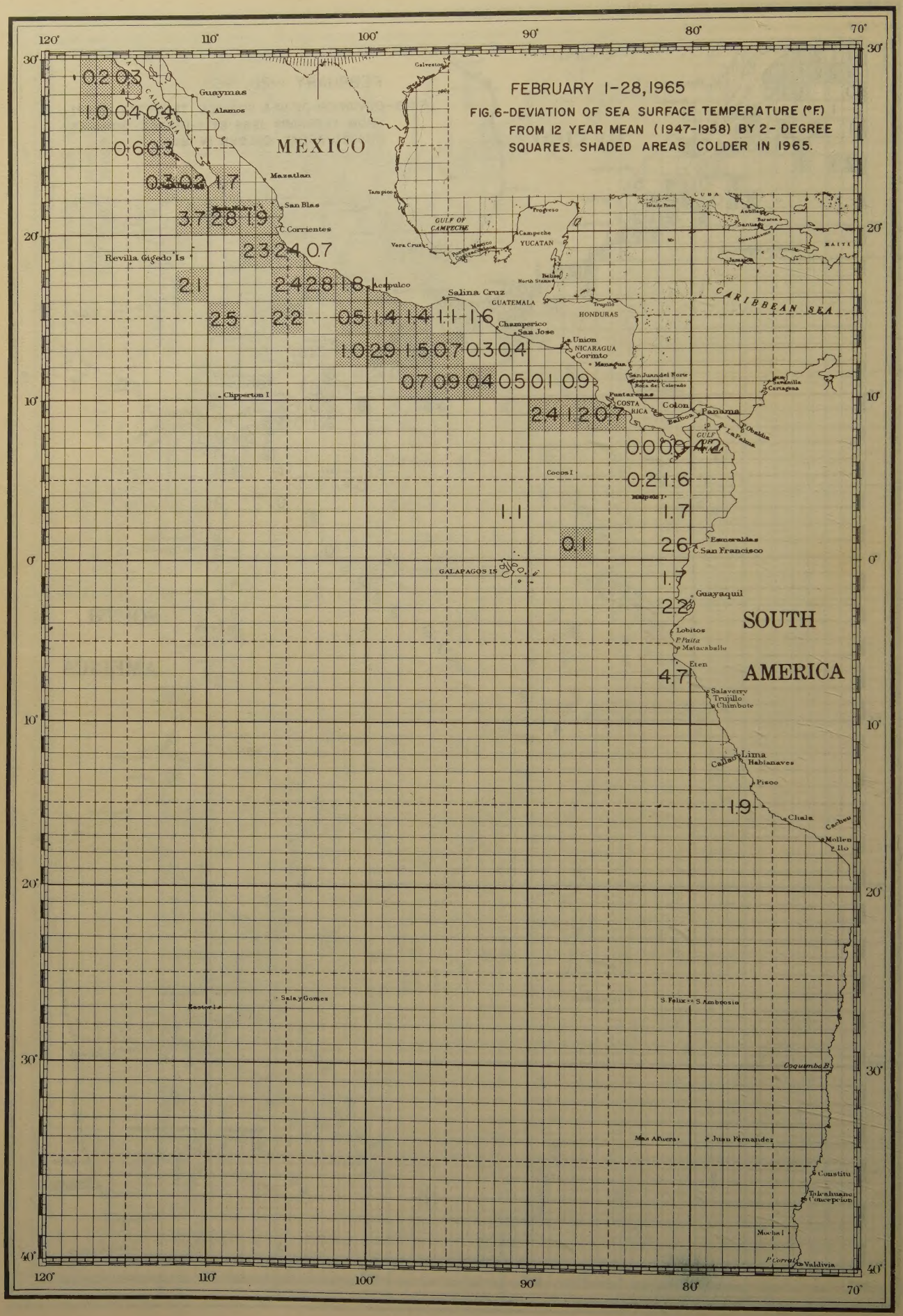

FEBRUARY 1-28, 1965
FIG. 1 - MEAN SEA SURFACE TEMPERATURE (°F.)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
41
65


FEBRUARY 1-28, 1965
FIG. 2 - DEVIATION OF SEA SURFACE TEMP. (°F.)
FROM LONG TERM MEAN. HATCHED
AREAS COLDER IN 1965.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


FEBRUARY 1-28, 1965
FIG.3- DEVIATION OF SEA SURFACE TEMP. (°F.) FROM FEBRUARY 1964. HATCHED AREAS COLDER IN 1965.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


FEBRUARY 1-28, 1965
FIG. 4 - SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
CARIBBEAN SEA
HONDURAS
NICARAGUA
GUATEMALA
Honolulu
Guaymas
Mazatlan
San Blas
Corrientes
Acapulco
Salina Cruz
Champerico
Guayaquil
Salaverry
Trujillo
Chimbote
Lima
Callao
Pisco
Chala
Mollendo
Arica
Iquique
Antofagasta
Valparaiso
Juan Fernandez
Mas Afuera
Easter I
Pitcairn I
Tahiti
Raivavae
Rapa
Rurutu
Tubuai
Rarotonga
Samoa Islands
Tonga Islands
Cook Islands
Phoenix Islands
Union Islands
Marquesas Is.
Tuamotu Archipelago
Society Is.
Austral Is.
Kermadec Is.
Galapagos
Cocos I
Malpelo I
Gorgona I
Gallo I
Clipperton I
Revilla Gigedo Is.
Socorro I
Roca Partida
Jarvis I
Howland I
Baker I
Phoenix Is.
Canton I
Enderbury I
Malden I
Fanning I
Christmas I
Line Is.
Palmyra I
Johnston I
Midway I
Hawaiian Islands
65
70
75
80


FEBRUARY 1-28, 1965
FIG.5 - DEVIATION OF SEA SURFACE TEMPERATURE (°F) FROM FEBRUARY 1964 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1965.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CALIFORNIA
GULF OF CAMPECHE
GULF OF PANAMA
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
CUBA
HAITI
JAMAICA
YUCATAN
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Corinto
Managua
Punta Arenas
Colon
Panama
Chiperton I
Cocos I
Malpelo I
Esmeraldas
San Francisco
Guayaquil
Lobitos
Talara
Paita
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablanaves
Pisco
Chala
Mollendo
Ilo
Sala y Gomez
S. Felix
S. Ambrosio
Juan Fernandez
Mas Afuera
Constitucion
Talcahuano
Concepcion
Valdivia
Corral
Mocha I
Coquimbo
Arica
Tocopilla
Iquique
Mejillones
Antofagasta
Caldera
Huasco
Coquimbo
Valparaiso
Tampico
Galveston
Progreso
Vera Cruz
Campeche
Belize
Trujillo
Tela de Para
Ocho Rios
Kingston
Barranquilla
Cartagena
Sabanilla
Chagres
Chiriqui
Balboa
Chitre
La Palma
Puerto Mexico
Coatzacoalcos
North Stann Cr
Rocas de Colorado
San Juan del Norte


FEBRUARY 1-28, 1965
FIG. 6-DEVIATION OF SEA SURFACE TEMPERATURE (°F) FROM 12 YEAR MEAN (1947-1958) BY 2-DEGREE SQUARES. SHADED AREAS COLDER IN 1965.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
GULF OF PANAMA
GALAPAGOS IS
CUBA
HAITI
JAMAICA
YUCATAN
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
Galveston
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Cormto
Managua
Tampico
Vera Cruz
Progreso
Campeche
Belize
North Stann Ck
Trujillo
Isla de Pinos
Nassau
Santiago
Kingston
Barranquilla
Cartagena
Panama
Colon
Balboa
Pedro Miguel
La Palma
Chepillo
Pantarenas
Cocos I
Chipperton I
Esmeraldas
San Francisco
Guayaquil
Lobitos
P Paita
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Callao
Lima
Habianaves
Pisco
Chala
Cocbau
Mollendo
Ilo
Sala y Gomez
Easter I
S Felix
S Ambrosio
Copiumba B
Mas Afuera
Juan Fernandez
Constitu
Talcahuano
Concepcion
Mocha I
P Corral
Valdivia
0 2 0 3
1 0 0 4 0 4
0 6 0 3
0 3 0 2 1 7
3 7 2 8 1 9
2 3 2 4 0 7
2 1
2 4 2 8 1 8
2 5
2 2
0 5 1 4 1 4 1 1 1 6
1 0 2 9 1 5 0 7 0 3 0 4
0 7 0 9 0 4 0 5 0 1 0 9
2 4 1 2 0 7
0 0 0 0 4 2
0 2 1 6
1 1
1 7
0 1
2 6
1 7
2 2
4 7
1 9
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°